This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1	1. (previously presented) A voice portal hosting system,
2	intended to be connected to a first voice telecommunication
3	network in order for a plurality of users in said network to
4	establish a connection with said system using voice equipment,
5	said system comprising:
6	a memory in which a plurality of interactive voice response
7	applications providing interactive voice response
8	functionality is stored, each of said applications
9	including an executable component for execution by
10	said hosting system;
11	a common speech recognition module;
12	means for storing a plurality of user-specific speech
13	models adapted to specific users for use by the common
14	speech recognition module;
15	a user identification module for identifying a user;
16	means for retrieving the user-specific speech model of the
17	identified user from said plurality of models;
18	and
19	uploading means for independently uploading said plurality
20	of interactive voice response applications, to said
21	system, by a plurality of independent value-added
22	service providers, wherein
23	the identified user interacts with one or more of said
24	interactive voice response applications, and wherein
25	said one or more interactive voice response applications
26	utilize said retrieved user-specific speech model via
27	said common speech recognition module for recognizing

speech of the identified user, wherein each of said
interactive voice response applications includes an
executable component for execution by said hosting
system, said executable component comprising at least
one of an executable file, a Java Bean, a Corbacomponent, a compiled software module, and a precompiled software module.

- 2. (original) The voice portal hosting system of claim 1,
 wherein said common speech recognition module comprises a common
 user profile database.
- 3. (original) The voice portal hosting system of claim 2,
 wherein said common user profile database includes user
 preferences.
- 4. (original) The voice portal hosting system of claim 3,
 wherein said user preferences include a delivery address for
 goods and/or services ordered with said value-added service
 providers.
- 5. (original) The voice portal hosting system of claim 3, wherein said user preferences include a billing address and/or preferences for goods and services ordered with said value-added service providers.
- 1 6. (canceled).
- 7. (original) The voice portal hosting system of claim 6,
 2 comprising means for adapting said common speech models
 3 associated to a user during each dialogue between said user and
 4 each of said interactive voice response applications.

- 1 8. (original) The voice portal hosting system of claim 7,
- 2 wherein said means for adapting said common speech models uses
- 3 recorded users' speech samples for adapting said common speech
- 4 models off-line.
- 1 9. (original) The voice portal hosting system of claim 1,
- 2 wherein said common speech recognition module uses Hidden Markov
- 3 Models, and further comprising a Hidden Markov Models adaptation
- 4 module for adapting said models to said user.
- 1 10. (original) The voice portal hosting system of claim 9,
- 2 wherein said Hidden Markov Models adaptation module allows for
- 3 an incremental adaptation of said models.
- 1 11. (original) The voice portal hosting system of claim 1,
- 2 wherein said common speech recognition module uses user-specific
- 3 language models.
- 1 12. (original) The voice portal hosting system of claim 11,
- 2 comprising means for adapting said common language models
- 3 associated to a user during each dialogue between said user and
- 4 each of said interactive voice response applications.
- 1 13. (original) The voice portal hosting system of claim 1,
- 2 wherein said common speech recognition module uses selections
- 3 previously made by said users.
- 1 14. (previously presented) The voice portal hosting system
- 2 of claim 13, wherein said selections previously made by said
- 3 users are stored in said voice portal hosting system for
- 4 improving the arborescence of the menus.

- 1 15. (original) The voice portal hosting system of claim 1,
- 2 wherein at least a plurality of said interactive voice response
- 3 applications use a common user identification module run on said
- 4 system.
- 1 16. (original) The voice portal hosting system of claim 15,
- 2 wherein said user identification module uses an identification
- 3 of the equipment used by said user in said first
- 4 telecommunication network.
- 1 17. (original) The voice portal hosting system of claim 16,
- 2 being operated by a telecom operator of said first
- 3 telecommunication network, wherein said user identification
- 4 module uses an identification of the equipment used by said user
- 5 in said first telecommunication network even when said
- 6 identification is not available for the other B-subscribers of
- 7 said first telecommunication network.
- 1 18. (original) The voice portal hosting system of claim 15,
- 2 wherein said user identification module uses a voice-based user
- 3 identification module.
- 1 19. (original) The voice portal hosting system of claim 15,
- 2 wherein said common speech recognition module uses a speaker-
- 3 dependant speech recognition algorithm, wherein said speaker is
- 4 identified by said common user identification module.
- 1 20. (original) The voice portal hosting system of claim 1,
- 2 wherein at least a plurality of said interactive voice response
- 3 applications use a common billing module and a common clearing

- 4 center for dispatching the collected amounts to said value-added
- 5 service providers.
- 1 21. (original) The voice portal hosting system of claim 20,
- 2 wherein said common billing module allows for the billing of
- 3 transactions between said users and said value-added service
- 4 providers on a common bill prepared by the operator of said
- 5 voice portal hosting system.
- 1 22. (original) The voice portal hosting system of claim 20,
- 2 wherein at least a plurality of said users have a deposit
- 3 account on said voice portal hosting system which can be used
- 4 for transactions with a plurality of said value-added service
- 5 providers.
- 1 23. (original) The voice portal hosting system of claim 1,
- 2 wherein at least a plurality of said interactive voice response
- 3 applications use a user authentication module based on an
- 4 electronic signature and/or on biometric parameters of said
- 5 users.
- 1 24. (original) The voice portal hosting system of claim 1,
- 2 wherein said second telecommunication network is a TCP/IP
- 3 network.
- 1 Claim 25 (canceled).
- 1 26. (original) The voice portal hosting system of claim 25,
- 2 wherein a compilation module run on said system compiles said
- 3 interactive voice response applications.
- 1 27. (original) The voice portal hosting system of claim 1,

- 2 wherein at least one free interactive voice response application
- 3 is made available by the operator of said system.
- 1 28. (original) The voice portal hosting system of claim 27,
- 2 wherein said free interactive voice response application
- 3 includes a free directory assistance service.
- 1 29. (canceled).
- 1 30. (previously presented) A method for allowing each of a
- 2 plurality of value-added service providers to set up an
- 3 interactive voice response application including an executable
- 4 component for execution by a voice portal hosting system
- 5 commonly used by said plurality of value-added service
- 6 providers, said voice response application for being used by a
- 7 plurality of users, comprising the steps of:
- 8 storing a plurality of user-specific speech models adapted
- 9 to specific users for use by a common speech
- 10 recognition module;
- identifying a user calling said system;
- retrieving the user-specific speech model of the identified
- user from said plurality of models;
- independently uploading, to said system, said interactive
- voice response applications which provide interactive
- voice response functionality;
- the identified user interacting with one or more of said
- interactive voice response applications; and
- said one or more of said interactive voice response
- applications using said retrieved user-specific speech
- 21 model via said common speech recognition module for
- 22 executing on said hosting system for recognizing
- speech of the identified user, wherein said

interactive voice response applications include an
executable component for execution by said hosting
system, said executable component comprising at least
one of an executable file, a Java Bean, a Corbacomponent, a compiled software module, and a precompiled software module.

- 31. (original) The method of claim 30, wherein said
 interactive voice response applications use a common user
 profile database stored in said voice portal hosting system.
- 32. (original) The method of claim 31, wherein said
 interactive voice response applications use user preferences
 stored in said common user profile database.
- 1 33. (original) The method of claim 32, wherein said user
 2 preferences include a delivery address for goods and/or services
 3 ordered with said value-added service providers.
- 1 34. (original) The method of claim 33, wherein said user 2 preferences include a billing address and/or preferences for 3 goods and/or services ordered with said value-added service 4 providers.
- 1 35. (original) The method of claim 34, wherein said common 2 speech recognition module uses common users' speech models.
- 1 36. (original) The method of claim 35, wherein said common
 2 speech models associated to a user are adapted during each
 3 dialogue between said users and each of said interactive voice
 4 response applications.

- 37. (original) The method of claim 30, wherein said commonspeech recognition module uses common users' language models.
- 1 38. (original) The method of claim 37, wherein said common
- 2 language models associated to a user are adapted during each
- 3 dialogue between said user and each of said interactive voice
- 4 response applications.
- 1 39. (original) The method of claim 30, wherein at least a
- 2 plurality of said interactive voice response applications uses a
- 3 common user identification module run on said system.
- 1 40. (original) The method of claim 39, wherein said user
- 2 identification module uses an identification of the equipment
- 3 used by said user in said first telecommunication network.
- 1 41. (original) The method of claim 40, wherein said voice
- 2 portal hosting system is operated by a telecom operator of said
- 3 first telecommunication network, wherein said user
- 4 identification module uses an identification of the equipment
- 5 used by said user in said first telecommunication network even
- 6 when said identification is not available for the other B-
- 7 subscribers of said first telecommunication network.
- 1 42. (original) The method of claim 39, wherein said user
- 2 identification module uses a voice-based speaker identification
- 3 module.
- 1 43. (original) The method of claim 39, wherein said common
- 2 speech recognition module uses a speaker-dependant speech

- 3 recognition algorithm, said user being identified by said common
- 4 user identification module.
- 1 44. (original) The method of claim 30, wherein at least a
- 2 plurality of said interactive voice response applications use a
- 3 common billing module and a common clearing center for
- 4 dispatching the collected amounts to said value-added service
- 5 providers.
- 1 45. (original) The method of claim 44, wherein said common
- 2 billing module allows for the billing of transactions between
- 3 said users and said value-added service providers on a common
- 4 bill prepared by the operator of said voice portal hosting
- 5 system.
- 1 46. (original) The method of claim 44, wherein at least a
- 2 plurality of said users have a deposit account on said system
- 3 which can be used for transactions with a plurality of said
- 4 value-added service providers.
- 1 47. (original) The method of claim 30, wherein at least a
- 2 plurality of said interactive voice response applications use a
- 3 user authentication module based on an electronic signature
- 4 and/or on biometric parameters of said users.
- 1 48. (original) The method of claim 30, wherein at least
- 2 some of said interactive voice response applications are
- 3 described with Voice extensible Markup Language documents.
- 1 49. (original) The method of claim 48, wherein a
- 2 compilation module run on said voice portal hosting system
- 3 compiles said interactive voice response applications.

1 50. (previously presented) A method for allowing each of a 2 plurality of independent value-added service providers to set up 3 an interactive voice response applications each including an 4 executable component for execution by a voice portal hosting 5 system commonly used by said plurality of value-added service providers and which can be used by a plurality of users, said 6 7 method comprising the steps of: 8 independently uploading, through a second telecommunication 9 network, said interactive voice response applications 10 to said system for providing interactive voice 11 response functionality, 12 storing a plurality of user-specific speech models adapted 13 to specific users for use by a common speech 14 recognition module, 15 identifying a user calling said system, 16 retrieving the user-specific speech model of the identified user from said plurality of models, 17 18 and 19 executing one or more of said voice response applications 20 in response to the user calling said system, said 21 executing including interacting with said user via 22 said common speech module using said retrieved user-23 specific speech model for recognizing the speech of 24 the user, wherein 25 said interactive voice response applications include an 26 executable component for execution by said hosting 27 system, said executable component comprising at least 28 one of an executable file, a Java Bean, a Corba-29 component, a compiled software module, and a pre-30 compiled software module, and wherein

31 said common speech models are adapted during each dialogue 32 between said users and any of said interactive voice 33 response applications. 1 51. (canceled). 1 52. (previously presented) A voice portal hosting system 2 allowing a plurality of users to establish a connection with 3 said system using voice equipment for interacting with one or 4 more of a plurality of service providers, said system 5 comprising: 6 means for independently uploading a plurality of 7 interactive voice response applications from said 8 service provides, to said system, via a communication 9 channel, each of said voice response applications for 10 providing interactive voice response functionality for 11 a corresponding one of said service providers when 12 executed by said hosting system, wherein said 13 interactive voice response applications include an 14 executable component for execution by said hosting 15 system, said executable component comprising at least 16 one of an executable file, a Java Bean, a Corba-17 component, a compiled software module, and a pre-18 compiled software module; 19 means for storing said plurality of interactive voice 20 response applications; 21 a common speech recognition module; 22 means for storing a plurality of user-specific speech 23 models adapted to specific users for use by the common 24 speech recognition module; a user identification module for identifying a user calling 25

said system via another communication channel;

means for retrieving the user-specific speech model of the identified user from said plurality of models, wherein the identified user interacts with one or more of said interactive voice response applications, and wherein said one or more interactive voice response applications utilize said retrieved user-specific speech model via said common speech recognition module for recognizing speech of the identified user, and further wherein said common speech models are adaptable during dialogue between said users and any of said interactive voice response applications.

53. (previously presented) A voice portal hosting system, intended to be connected to a first voice telecommunication network in order for a plurality of users in said network to establish a connection with said system using voice equipment, said system comprising:

a memory in which a plurality of interactive voice response applications providing interactive voice response functionality is stored, each of said applications including an executable component for execution by said hosting system;

a common speech recognition module;

means for storing a plurality of user-specific speech models adapted to specific users for use by the common speech recognition module;

a user identification module for identifying a known user or a new user;

means for retrieving the user-specific speech model of the known user from said plurality of models;

means for updating said user-specific speech models to the new user without using any training phase;

21 and 22 uploading means for independently uploading said plurality 23 of interactive voice response applications, to said 24 system, by a plurality of independent value-added 25 service providers, wherein 26 the identified user interacts with one or more of said 27 interactive voice response applications, and wherein 28 said one or more interactive voice response applications utilize said retrieved user-specific speech model via 29 30 said common speech recognition module for recognizing 31 speech of the known user, wherein speaker independent 32 models are used for a new user prior to updating said 33 user-specific speech models to make the new user into

1 54. (previously presented) The system of claim 53, wherein 2 each of said interactive voice response applications includes an 3 executable component for execution by said hosting system, said 4 executable component comprising at least one of an executable 5 file, a Java Bean, a Corba-component, a compiled software 6 module, and a pre-compiled software module.

a known user.

1 55. (previously presented) A method for allowing each of a 2 plurality of value-added service providers to set up an 3 interactive voice response application including an executable 4 component for execution by a voice portal hosting system 5 commonly used by said plurality of value-added service 6 providers, said voice response application for being used by a 7 plurality of users, comprising the steps of: 8 storing a plurality of user-specific speech models adapted 9 to known users for use by a common speech recognition

module;

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12 new user; 13 retrieving the user-specific speech model of the known user 14 from said plurality of models or else retrieving a 15 speaker independent model for the new user and 16 generating a user-specific speech model for the new 17 user without using any training phase; 18 independently uploading, to said system, said interactive 19 voice response applications which provide interactive 20

voice response functionality; the identified user interacting with one or more of said

identifying a user calling said system as a known user or a

interactive voice response applications; and said one or more of said interactive voice response applications using said retrieved user-specific speech model or said retrieved speaker independent speech model via said common speech recognition module for executing on said hosting system for recognizing speech of the known user or the new user,

respectively.

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56. (previously presented) The system of claim 53, wherein each of said interactive voice response applications includes an executable component for execution by said hosting system, said executable component comprising at least one of an executable file, a Java Bean, a Corba-component, a compiled software module, and a pre-compiled software module.

57. (previously presented) A method for allowing each of a plurality of independent value-added service providers to set up an interactive voice response applications each including an executable component for execution by a voice portal hosting system commonly used by said plurality of value-added service

6 providers and which can be used by a plurality of users, said 7 method comprising the steps of: 8 independently uploading, through a second telecommunication 9 network, said interactive voice response applications 10 to said system for providing interactive voice 11 response functionality, 12 storing a plurality of user-specific speech models adapted 13 to known users for use by a common speech recognition 14 module, 15 identifying a user calling said system as a known user or 16 new user, 17 retrieving the user-specific speech model of the known user 18 from said plurality of models or retrieving a speaker 19 independent model for a new user and adapting a user 20 specific speech model for the new user, 21 and 22 executing one or more of said voice response applications 23 in response to the user calling said system, said 24 executing including interacting with the user via said 25 common speech module using said retrieved user-26 specific speech model for recognizing the speech of 27 the known user or using said retrieved speaker 28 independent model for the new user, wherein 29 said common speech models are adapted during each dialogue 30 between said users and any of said interactive voice 31 response applications without using any training

58. (previously presented) The method of claim 57, wherein said interactive voice response applications include an executable component for execution by said hosting system, said executable component comprising at least one of an executable

phase.

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- 5 file, a Java Bean, a Corba-component, a compiled software
- 6 module, and a pre-compiled software module.
- 1 59. (previously presented) A system for implementing the 2 method of claim 57.
- 1 60. (previously presented) A method for allowing each of a
 2 plurality of independent value-added service providers to set up
 3 an interactive voice response applications each including an
 4 executable component for execution by a voice portal hosting
 5 system commonly used by said plurality of value-added service
 6 providers and which can be used by a plurality of users, said
 7 method comprising the steps of:
- independently uploading, through a second telecommunication
 network, said interactive voice response applications
 to said system for providing interactive voice
 response functionality, wherein said interactive voice
 response applications include an executable component
 for execution by said hosting system,
 - storing a plurality of user-specific speech models adapted to known users for use by a common speech recognition module,
 - identifying a user calling said system as a known user or new user,
 - retrieving the user-specific speech model of the known user from said plurality of models or retrieving a speaker independent model for a new user and adapting a user specific speech model for the new user,
 - executing one or more of said voice response applications in response to the user calling said system, said executing including interacting with the user via said common speech module using said retrieved user-

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27 specific speech model for recognizing the speech of 28 the known user or using said retrieved speaker 29 independent model for the new user, wherein 30 said common speech models are incrementally adapted during each dialogue between said users and any of said 31 32 interactive voice response applications using 33 recording speech samples and without using any 34 training phase, and wherein 35 said common speech recognition module comprises a common 36 user profile database including user preferences. 1 61. (new) A voice portal hosting system, intended to be 2 connected to a first voice telecommunication network in order 3 for a plurality of users in said network to establish a 4 connection with said system using voice equipment, said system 5 comprising: 6 a memory in which a plurality of interactive voice response 7 applications providing interactive voice response 8 functionality is stored, each of said applications 9 including an executable component for execution by 10 said hosting system; 11 a common speech recognition module; 12 means for storing a plurality of user-specific speech and 13 language models adapted to specific users for use by 14 the common speech recognition module; 15 a user identification module for identifying a user; 16 means for retrieving the user-specific speech and language 17 model of the identified user from said plurality of 18 models: 19 and 20 uploading means for independently uploading said plurality 21 of interactive voice response applications, to said

system, by a plurality of independent value-added service providers, wherein the identified user interacts with one or more of said interactive voice response applications, and wherein said one or more interactive voice response applications utilize said retrieved user-specific speech and language model via said common speech recognition module for recognizing speech of the identified user, wherein each of said interactive voice response applications includes an executable component for execution by said hosting system.

62. (new) A method for allowing each of a plurality of value-added service providers to set up an interactive voice response application including an executable component for execution by a voice portal hosting system commonly used by said plurality of value-added service providers, said voice response application for being used by a plurality of users, comprising the steps of:

storing a plurality of user-specific speech and language models adapted to specific users for use by a common speech recognition module;

identifying a user calling said system;

retrieving the user-specific speech and language model of the identified user from said plurality of models;

independently uploading, to said system, said interactive voice response applications which provide interactive voice response functionality;

the identified user interacting with one or more of said interactive voice response applications; and said one or more of said interactive voice response

applications using said retrieved user-specific speech

and language model via said common speech recognition
module for executing on said hosting system for
recognizing speech of the identified user, wherein
said interactive voice response applications include
an executable component for execution by said hosting
system.

63. (new) A method for allowing each of a plurality of value-added service providers to set up an interactive voice response application including an executable component for execution by a voice portal hosting system commonly used by said plurality of value-added service providers, said voice response application for being used by a plurality of users, comprising the steps of:

storing a plurality of user-specific speech models adapted to specific users for use by a common speech recognition module;

identifying user equipment being used by a user calling said system;

identifying the user using the user equipment;

retrieving the user-specific speech model of the identified user from said plurality of models;

independently uploading, to said system, said interactive voice response applications which provide interactive voice response functionality;

the identified user interacting with one or more of said interactive voice response applications; and

said one or more of said interactive voice response applications using said retrieved user-specific speech model via said common speech recognition module for executing on said hosting system for recognizing speech of the identified user, wherein said

26 interactive voice response applications include an 27 executable component for execution by said hosting 28 system. 1 64. (new) A voice portal hosting system, intended to be 2 connected to a first voice telecommunication network in order 3 for a plurality of users in said network to establish a 4 connection with said system using voice equipment, said system 5 comprising: 6 a memory in which a plurality of interactive voice response 7 applications providing interactive voice response 8 functionality is stored, each of said applications 9 including an executable component for execution by 10 said hosting system; 11 a common speech recognition module; 12 means for storing a plurality of user-specific speech 13 models adapted to specific users for use by the common 14 speech recognition module; 15 a user identification module for identifying a user; 16 means for retrieving the user-specific speech model of the 17 identified user from said plurality of models; 18 and 19 uploading means for independently uploading said plurality 20 of interactive voice response applications, to said 21 system, by a plurality of independent value-added 22 service providers, wherein 23 the identified user interacts with one or more of said 24 interactive voice response applications, and wherein 25 said one or more interactive voice response applications 26 utilize said retrieved user-specific speech model via 27 said common speech recognition module for recognizing 28 speech of the identified user, wherein each of said

29		interactive voice response applications includes an
30		executable component for execution by said hosting
31		system, and wherein
32	said	common speech recognition module, said user-specific
33		speech models, and said plurality of interactive voice
34		response applications are all hosted in a single host.